

Areas of Specialization

Deep Learning · Computer Vision · Representation Learning · Benchmark Design · AI for Science

Experience

Research Scientist	Stealth Startup	2024 –
Research Scientist	Altos Labs	2023 – 2024
Graduate Research Assistant	California Institute of Technology	2017 – 2023
Research Intern	Google AI	2020 – 2022
Research Intern	Microsoft Research	2019
Research Intern	Air Force Research Laboratory	2017 – 2018

Education

Ph.D.	California Institute of Technology Department of Computing and Mathematical Sciences Thesis Committee: Pietro Perona (advisor), Serge Belongie, Katie Bouman, Yisong Yue	2023
B.S.E.	Duke University Double Major in Electrical & Computer Engineering, Mathematics	2017

Selected Awards

Amori Doctoral Prize	California Institute of Technology	2023
Resnick Sustainability Institute Scholar	California Institute of Technology	2021
NSF Graduate Research Fellowship	National Science Foundation	2019
Charles Earnest Seager Memorial Award	Duke University	2017

Selected Publications

CVPR '24	Lang, Snæbjarnarson, Cole et al. <i>From Coarse to Fine-Grained Open-Set Recognition.</i>
NeurIPS '23	Lange, Cole et al. <i>Active Learning-Based Species Range Estimation.</i>
ICML '23	Cole et al. <i>Spatial Implicit Neural Representations for Global-Scale Species Mapping.</i>
ECCV '22	Cole et al. <i>On Label Granularity and Object Localization.</i>
CVPR '22	Cole et al. <i>When Does Contrastive Visual Representation Learning Work?</i>
CVPR '21	Cole et al. <i>Multi-Label Learning from Single Positive Labels.</i>
CVPR '21	Van Horn, Cole et al. <i>Benchmarking Representation Learning for Natural World Image Collections.</i>
ICCV '19	Mac Aodha, Cole et al. <i>Presence-Only Geographical Priors for Fine-Grained Image Classification.</i>

Selected Presentations

<i>AI & Spatial Transcriptomics</i>	Salk Institute for Biological Studies
<i>Self-Supervised Learning in the Era of Large Models</i>	California Institute of Technology
<i>Learning from Real-World Data</i>	Cornell University
<i>Computer Vision for Expert Tasks</i>	Allen Institute for Artificial Intelligence
<i>Self-Supervised Learning Beyond ImageNet</i>	Santa Fe Institute
<i>Computer Vision for Biodiversity Monitoring and Conservation</i>	Yale University

Selected Service

Co-Organizer	CVPR Workshop on Fine-Grained Visual Categorization ('21, '22, '23, '24), Resnick Institute Workshop on Computer Vision for Ecology ('22), GeoLifeCLEF Competition ('20, '21, '22), iWildCam Competition ('20, '21).
Reviewer	ICLR, CVPR, ICML, NeurIPS, WACV, ICCV. Top reviewer awards from CVPR, ICLR, ICML, and NeurIPS.